

What is claimed is:

1. A film bulk acoustic resonator filter comprising a plurality of film bulk acoustic resonators each having a top electrode, a bottom electrode, and a piezoelectric layer sandwiched between the top and bottom electrodes, wherein the top electrodes of at least two of the film bulk acoustic resonators are connected to associated circuitry.

2. A film bulk acoustic resonator filter according to 10 claim 1, wherein the top electrodes of the at least two of the film bulk acoustic resonators connected to the associated circuitry form part of transmission lines of a coplanar waveguide structure.

15 3. A film bulk acoustic resonator filter according to claim 1, wherein the at least two of the film bulk acoustic resonators with the top electrodes connected to the associated circuitry have a common bottom electrode.

20 4. A ladder-type film bulk acoustic resonator filter comprising at least two series resonators and at least two parallel resonators, each made of a film bulk acoustic resonator having a top electrode, a bottom electrode, and a piezoelectric layer sandwiched between the top and bottom electrodes, wherein the top electrodes of two of the series resonators are connected to associated circuitry.

5. A film bulk acoustic resonator filter according to
claim 4, wherein the top electrodes of the two of the series
resonators connected to the associated circuitry form part
5 of a signal line of a coplanar waveguide transmission line.

6. A film bulk acoustic resonator filter according to
claim 4, wherein the two of the series resonators with the
top electrodes connected to the associated circuitry have a
10 common bottom electrode.